

#### **Section 1. Identification**

Product Name: ROYALSIL HI-PURITY MEMO

**Product Use:** Used to treat mineral fillers, adhesion promoter in various paints, adhesives,

caulks and sealants. Certain plastics.

Effective Date: 18 May 2020 Replaces: 21 May 2019

**Supplier Information**:

ROYALSIL, Inc. 25 Lancelot Lane

Mount Laurel, NJ 08054-1912

**USA Emergency Phone Number:** 

CHEMTREC (24-hr/7 days): 1-800-424-9300 Refer to ROYALSIL, Inc. Contract # CCN674872.

## **Section 2. Hazard(s) Identification**

**Emergency Overview:** Clear to pale yellow combustible liquid. Causes mild skin irritation. Cause serious eye damage. May cause an allergic skin reaction. Toxic to aquatic life.

**GHS** Classification:

Skin Corrosive/Irritation Eye Damage/Irritation Category 2 Category 2A



**GHS Pictograms:** 

**GHS Label:** WARNING

POTENTIAL HEALTH EFFECTS: CODE OF HAZARD STATEMENTS:

**Physical Hazards** 

None.

**Health Hazards** 

H303- May be harmful if swallowed.

H317- May cause an allergic skin reaction

H318- Causes serious eye damage.

H332- Harmful if inhaled.

**Environmental Hazards** 

H401- Toxic to aquatic life.



#### **CODE OF PRECAUTIONARY STATEMENTS:**

#### General

P101- Keep out of reach of children.

P103- Read label before use.

#### **Prevention Statements**

P202- Do not handle until all safety precautions have been read and understood.

P233- Keep container tightly closed.

P261- Avoid breathing dust/fume/gas/mist/vapor/spray.

P262- Do not get in eyes, on skin or on clothing.

P264- Wash thoroughly after handling using this product.

P270- Do not eat, drink, or smoke when using this product.

P271- Use only outdoors or in a well-ventilated area.

P273- Avoid release to the environment.

P280- Wear protective gloves/protective clothing/eye protection/face protection.

# **Response Statements**

P302- P352- IF ON SKIN (or hair): wash with plenty water/soap.

P304- P312- P340- IF INHALED. Remove victim to fresh air and keep at rest in apposition comfortable and breathing. Call a POISON CENTER or doctor/physician you feel unwell.

P305- P310- P338- P351- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POSION CENTER or doctor/physician if you feel unwell.

P333- P313- If skin irritation or rash occurs: Get medical advice/attention.

P363- Wash contaminated clothing before reuse.

### **Storage**

P235- P403- Keep cool. Store in well-ventilated place.

### **Disposal**

P501- Dispose of contents/container to an approved waste disposal plant.

**ROUTES OF ENTRY**: Eye contact, skin adsorption, ingestion and inhalation.

**CARCINOGENICITY:** Methanol is a residual product of hydrolysis.

## Section 3. Composition/Information on Ingredients

Ingredients	CAS No.	EINECS No.	%	Reach No.
3-ethacryloxypropyltrimethoxysilane	2530-85-0	219-785-8	≥98%	Yes
4-methoxy-phenol	150-76-5	205-769-8	<u>&lt;</u> 1%	Yes



### **Section 4. First Aid Measures**

**General Advice:** In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.

**Eye Contact**: Flush eyes with water immediately while holding eyelids open. Remove contacts, if worn, after initial flushing and continue flushing for at least 15 minutes. Seek medical attention if irritation persists.

**Skin Contact**: Use soap and water to remove from the skin, remove contaminated clothing, clean thoroughly before reuse. If irritation persists, contact a physician.

**Inhalation:** Move to fresh air. If not breathing, give rescue breathing. If breathing is difficult, give oxygen. Seek medical attention if breathing is still difficult.

**Ingestion**: If swallowed, get medical attention immediately. DO NOT INDUCE VOMITING.

Never give anything by mouth to an unconscious person.

**Note to Physician:** Treat symptomatically and supportively.

# **Section 5. Fire Fighting Measures**

**Flash Point**: 226°F (108°C) Combustible liquid **Flammability Limits**: LEL: 0.9% UEL: 5.4%

**Fire Fighting Media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. **Special Fire Fighting Procedures:** In case of fire cool endangered containers with water. Hazardous fumes in fires, specific to the product are ammonia, alcohols, amines, nitrogen and silicon oxides. First responders need to wear full-bunker gear with Self Contained Breathing Apparatus (SCBA), never enter a confined space unless fully protected with proper personal protective equipment (PPE).

### **Section 6. Accidental Release Measures**

Use personal protective equipment, see section 8.

**Clean-up Procedures**: Stop the source of the release if you are not put at risk. Use inert absorbent material (such as earth, diatomaceous earth, vermiculite) to absorb the spill, use non-sparking shovel to pick up absorbent for disposal. Assure adequate ventilation.

Spills and Leaks: Dispose in accordance to local, state or Federal regulations.

## **Section 7. Handling and Storage**

**Handling:** Provide good ventilation. Wear personal protective equipment, see section 8. Do not get into eyes, on skin and on clothing. Do not breathe vapors or mists. Use with adequate ventilation. Wash thoroughly after handling.

**Storage**: Store in original labeled container. Keep in cool and dry areas.



## **Section 8. Exposure Controls/Personal Protection**

**Introductory Remarks:** Use a local exhaust ventilation or other engineering controls to minimize airborne exposure. A safety shower and eye wash should be readily available. 4-Methoxy-phenol permissible exposure limit (PEL) is 5 mg/m<sup>3</sup>.

**Personal Protection:** 

Eyes: Wear safety goggles or face shield to prevent eye contact.

**Body:** Chemical apron, long sleeve shirts, long pants, socks, and rubber boots.

Hands: Chemical resistant gloves.

Respiratory: Wear an approved respirator that provides protection from this product if the

airborne concentrations exceed the recommended exposure limits.

## **Section 9. Physical and Chemical Properties**

Physical State, Color, Odor	Clear to pale yellow liquid with ester-like odor	Vapor Pressure	< 2hPa @ 68°F (20°C)
Ignition Temperature	527°F (275°C)	Density(water=1)	> 1.04g/ml @ 77°F (25°C)
Flash Point	226°F (108°C)	<b>Boiling Point</b>	374°F (190°C)

## Section 10. Stability and Reactivity

Chemical Stability: Considered stable under normal ambient temperatures.

**Hazardous Decomposition:** In complete combustion, oxides of carbon and silicate are formed.

In the presence of air, product can form methanol vapors.

Hazardous Polymerization: Will not occur.

Incompatibility- Materials to Avoid: Reacts with strong oxidizing agents, acids, bases and

water.

## **Section 11. Toxicological Information**

Toxicology: Acute Oral LD<sub>50 (rat)</sub> = 2,000 mg/kg

Acute Inhalation  $LC_{50(rat)} = 10 \text{ ppm } (7 \text{ hour})$ 

**Skin irritation**: No irritation. **Eye irritation**: No eye irritation.

Reproductive toxicity: No evidence of adverse effects on sexual function and fertility or on

development, based on animal experiments.

Carcinogenic Effects: Methanol is a residual product of hydrolysis.

## **Section 12. Ecological Information**

Ecotoxicity:  $LC_{50(Zebra\ Fish)} = 100\ mg/L\ (96\ hour)$ 



 $EC_{50(Green Algae)} = > 100 \text{ mg/L } (72 \text{ hour})$ 

This is toxic to aquatic organisms.

Environmental Fate: Methanol is readily bio-degradable.

## **Section 13. Disposal Considerations**

**Waste Disposal Method:** Whatever cannot be saved for recovery or recycling should be managed by the local, state or Federal Regulations.

**Container Handling and Disposal:** All containers should be triple rinsed and disposed of according to local, state and Federal regulations.

## **Section 14. Transport Information**

**Shipping Name:** ROYALSIL HI-PURITY MEMO

**Proper Shipping Description (Ground):** 

Not regulated.

IATA: (Cargo aircraft only)

Not regulated.

**IMO (Water):** 

Not regulated.

## **Section 15. Regulatory Information**

**EPCRA 311/312 Categories:** Immediate (Acute) Health Effects: Yes

Delayed (Chronic) Health Effects: Yes Fire Hazard: Yes Sudden Release of Pressure No Reactivity: No

Right to Know Classification: Not listed.

**TSCA**: 3-methacryloxypropyltrimethoxysilane and 4-methoxy-phenol are listed on the TSCA active list inventory.

**Reportable Quantity (RQ):** None.

**Prop. 65:** Methanol is listed as developmental toxicity.



WHMIS: Flammable and Combustible materials.

These ingredients are listed in the DSL and NDSL list in Canada

**Hazardous Material** 

All compounds are listed as chemical inventories of Australia, Canada, China, EU, Japan, Korea, Philippines, United Kingdom and United States of America.

## **Abbreviations:**

CAS#	Chemical Abstract Service Number					
$^{\circ}\mathrm{C}$	Celsius Temperature Scale	°F	Fahrenheit Temperature Scale			
EINECS # European Inventory of Existing Chemical Substances Number						
hPa	Hectopascal	$LD_{50}$	Lethal Dose Oral or Dermal			
$LC_{50}$	Lethal Concentration	LEL	Lower Explosive Limit			
UEL	Upper Explosive Limit	PEL	Permissible Exposure Limit			
PPE	Personal Protective Equipment	Prop.	Proprietary			
PSI	Pounds Per Square Inch	NA	Not Applicable			
ND	Not Determined	STEL	Short Term Exposure Limit			
TLV	Threshold Limit Value	TSCA	Toxic Substance Control Act			
TWA	Time Weighted Average					

## **Section 16. Other Information**

**National Fire Protection** 

Information	n System Assoc	ciation				
HMIS		NFPA				
1	Health	1	Health			
2	Fire	2	Fire			
1	Reactivity	1	Instability			
Н	Personal Protection		NA			

Health	4 Deadly	3	Extreme Danger	2	Dangerous	1 Slight hazard	0	No hazard
Fire	4 < 73 °C	3	< 100 °C	2	$< 200$ $^{\circ}$ C	1 >200 °C	0	Will not burn
Reactivity/	4 May detonate	3	Explosive	2	Unstable	1 Normally stable	0	Stable
Instability								

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This Safety Data Sheet (SDS) meets the requirements of the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200) this product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all information required by CPR.



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